

AMENDMENT

Listing of Claims:

The following listing of claims replaces all previous listings or versions thereof:

1. (Currently amended) An isolated antimicrobial peptide of 12-37 residues, the peptide comprising an amino acid sequence selected from the group consisting of:

KNLRRIRKIIHIKKYG-NH₂ (SEQ ID NO: 1),

KNIRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 6),

KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),

KNLRRIRKIIHIKKYG (SEQ ID NO: 8),

NLRRIRKIIHIKKY (SEQ ID NO 9),

NIRRIIRKIIHIKKY (SEQ ID NO: 10),

LRRIIRKIIHIKK-NH₂ (SEQ ID NO: 11),

LRRIIRKIIHIKK (SEQ ID NO: 12),

IRRIIRKIIHIKK-NH₂ (SEQ ID NO: 13),

IRRIIRKIIHIKK (SEQ ID NO: 14),

LRRIIRKIIHIK-NH₂ (SEQ ID NO: 15),

RRIIRKIIHIKK-NH₂ (SEQ ID NO: 16),

RRIIRKIIHIK-NH₂ (SEQ ID NO: 17),

~~GLRKRLRKFRNKIKEKLKKIG (SEQ ID NO: 19),~~

KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20),

RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),

LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),

LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),

RKFRNKIKEKLKKIG (SEQ ID NO: 24),

KIKEKLKKIGQKIQG (SEQ ID NO: 25),

KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),

and

KNLRRIRKIIHIIKKYGPTILRIIRIIG-NH₂ (SEQ ID NO: 28).

2. (Canceled)

3. (Currently amended) A pharmaceutical composition comprising an antimicrobial peptide of 12 to 37 residues, the peptide comprising an amino acid sequence selected from the group consisting of:

KNLRRIRKIIHIIKKYG-NH₂ (SEQ ID NO: 1),

KNIRRIIRKIIHIIKKYG-NH₂ (SEQ ID NO: 6),

KNIRRIIRKIIHIIKKYG (SEQ ID NO: 7),

KNLRRIRKIIHIIKKYG (SEQ ID NO: 8),

NLRRIRKIIHIIKKY (SEQ ID NO 9),

NIRRIIRKIIHIIKKY (SEQ ID NO: 10),

LRRIIRKIIHIIKK-NH₂ (SEQ ID NO: 11),

LRRIIRKIIHIIKK (SEQ ID NO: 12),

IRRIIRKIIHIIKK-NH₂ (SEQ ID NO: 13),

IRRIIRKIIHIIKK (SEQ ID NO: 14),

LRRIIRKIIHIIK-NH₂ (SEQ ID NO: 15),

RRIIRKIIHIIKK-NH₂ (SEQ ID NO: 16),

RRIIRKIIHIIK-NH₂ (SEQ ID NO: 17),

~~GLRKRLRKFRNKIKEKLKKIG (SEQ ID NO: 19),~~

KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20),

RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),

LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),

LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),

RKFRNKIKEKLKKIG (SEQ ID NO: 24),

KIKEKLKKIGQKIQG (SEQ ID NO: 25),

KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),

and

KNLRRRIIRKIIHIIKKYGPTILRIIRIIG-NH₂ (SEQ ID NO: 28),
formulated in a pharmaceutically acceptable carrier.

4-33. (Canceled)

34. (Currently amended) An antimicrobial peptide consisting of ~~the~~a sequence
KNLRRRIIRKIIHIIKKYG-NH₂ (SEQ ID NO: 1).

35. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
KNIRRIIRKIIHIIKKYG-NH₂ (SEQ ID NO: 6).

36. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
KNIRRIIRKIIHIIKKYG (SEQ ID NO: 7).

37. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
KNLRRRIIRKIIHIIKKYG (SEQ ID NO: 8).

38. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
NLRRRIIRKIIHIIKKY (SEQ ID NO 9).

39. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
NIRRIIRKIIHIIKKY (SEQ ID NO: 10).

40. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
LRRRIIRKIIHIIKK-NH₂ (SEQ ID NO: 11).

41. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
LRRRIIRKIIHIIKK (SEQ ID NO: 12).

42. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
IRRIIRKIIHIIKK-NH₂ (SEQ ID NO: 13).

43. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence IRRIRKIIHIIKK (SEQ ID NO: 14).
44. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence LRRIRKIIHIIK-NH₂ (SEQ ID NO: 15).
45. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RRIIRKIIHIIKK-NH₂ (SEQ ID NO: 16).
46. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RRIIRKIIHIIK-NH₂ (SEQ ID NO: 17).
47. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence GLRKRLRKFRNKIKEKLKKIG (SEQ ID NO: 19).
48. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20).
49. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21).
50. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22).
51. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23).
52. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RKFRNKIKEKLKKIG (SEQ ID NO: 24).

53. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQG (SEQ ID NO: 25).
54. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQGLL (SEQ ID NO: 26).
55. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KNLRRIRKIIHIIKKYGPTILRIIRIIG-NH₂ (SEQ ID NO: 28).